

STIC EIC 2100
Search Request Form

217253

Today's Date:

March 6, 2007

What date would you like to use to limit the search?

Priority Date: 10/21/2002 Other:

Name

Musul, Ragan

AU

2167

Examiner #

77889

Room #

3C-05

Phone

416 75

Serial #

10/688, 716

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP

DWPI

EPO

JPO

ACM

IBM TDB

IEEE

INSPEC

SPI

Other

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES NO

Is this case a SPECIAL CASE?

(Circle One) YES NO

SONY, UK

Inventors

Michael John Williams

Daniel Warren Tapsen

quasi-unique reference
& hash value

regenerated hash

Metadata generated to describe content of AV material

Hash Value generated from the AV material (for each frame)

Storing hashvalue associated with metadata assoc. with shot.

metadata generation processor

hashing processor

meta of AV material

hashvalue of AV material

data structure representing metadata

- Volume id -

- one shot id. -

- quasi-unique hash value

STIC Searcher

Ruth Spink

Phone

2-3524

Date picked up

3/6/07

Date Completed

3/6/07

Set	Items	Description
S1	781032	S AUDIO OR VIDEO OR AV OR AUDIOVISUAL OR MULTIMEDIA OR VOICE OR STREAMING
S2	170024	S METADATA OR META()DATA OR TAG OR TAGS OR TAGGED OR TAGGING OR METATAG?
S3	18337	S HASH OR HASHES OR HASHED OR HASHING
S4	23	S S1 (10N) S2 (10N) S3
S5	23	IDPAT (sorted in duplicate/non-duplicate order)
S6	22	IDPAT (primary/non-duplicate records only)
S7	13	S S6 AND IC=(G06F OR G09G)
S8	139	S S1 (10N) S2 (10N) (FINGERPRINT? ? OR SIGNATURE? ?)
S9	44	S S8 (30N) (ID OR IDS OR IDENTIFIER? ? OR IDENTIFICATION()NUMBER? ?)
S10	28	S S9 AND IC=(G06F OR G09G)
S11	23	S S10 NOT S7
S12	19	S S11 NOT AY>2002
S13	19	IDPAT (sorted in duplicate/non-duplicate order)
S14	19	IDPAT (primary/non-duplicate records only)

; show files

[File 348] **EUROPEAN PATENTS 1978-2007/ 200708**

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**File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] **PCT FULLTEXT 1979-2007/UB=20070301UT=20070222**

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**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 350] **Derwent WPIX 1963-2006/UD=200715**

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**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.*

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/60	Main
G06F-017/60	Main

Publication Language: English

Filing Language: English

Fulltext word count: 5635

English Abstract:

A method of regulating sharing of a multimedia object (200) by a device (100), comprising registering usage information for the multimedia object (200) upon sharing of the multimedia object (200), and after the registering, billing a user of the device (100) for a certain amount in accordance with the registered usage information for the multimedia object (200). Registration preferably takes place in a client (101) arranged for sharing of the multimedia object (200). The usage information could for instance comprise the number of times a multimedia object has been shared, or the duration of the object. If a sufficient number of objects have been shared, or if the total time exceeds a maximum, the client (101) reports the usage information to a third party (130) for billing purposes.

French Abstract:

Procede de regulation du partage d'un objet multimedia (200) par un dispositif (100), ce qui consiste a enregistrer l'information d'utilisation de l'objet multimedia (200) au moment du partage de ce dernier et, apres l'enregistrement, a facturer a l'utilisateur du dispositif (100) un certain montant en fonction de l'information d'utilisation enregistree pour l'objet multimedia (200). L'enregistrement a lieu, de preference, chez un client (101) devant partager l'objet multimedia (200). Cette information d'utilisation pourrait, par exemple, comprendre le nombre de fois que l'objet multimedia etait partage ou la duree de cet objet. Si un nombre suffisant d'objets a ete partage ou si la duree totale depasse une duree maximum, le client (101) rapporte l'information d'utilisation a un tiers (130) a des fins de facturation.

Type	Pub. Date	Kind	Text
Publication	20040129	A1	With international search report.
Publication	20040129	A1	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Detailed Description:

7/5K/4 (Item 4 from file: 349) [Links](#)

PCT FULLTEXT

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01087467

REGULATING CONTENT USAGE IN A DEVICE

REGULATION DE L'USAGE D'UN CONTENU DANS UN DISPOSITIF

Patent Applicant/Patent Assignee:

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(For all designated states except: US)
- **JONKER Willem**; Prof. Holstlaan 6, NL-5656 AA Eindhoven
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(Designated only for: US)
- **DENISSEN Adrianus J M**; Prof. Holstlaan 6, NL-5656 AA Eindhoven
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(Designated only for: US)

Patent Applicant/Inventor:

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- **DENISSEN Adrianus J M**
Prof. Holstlaan 6, NL-5656 AA Eindhoven; NL; NL(Residence); NL(Nationality); (Designated only for: US)

Legal Representative:

- **GROENENDAAL Antonius W M(agent)**
Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven; NL;

	Country	Number	Kind	Date
Patent	WO	200410270	A2-A3	20040129
Application	WO	2003IB2919		20030623
Priorities	EP	200277981		20020722

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;

UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-001/00	Main
G06F-001/00	Main

Publication Language: English

Filing Language: English

Fulltext word count: 4385

English Abstract:

A method of regulating usage of a content item (120) by a user, comprising registering usage information for the content item (120) upon usage of the content item (120), and after the registering, billing the user in accordance with the registered usage information for the content item (120). Registration preferably takes places in an end-user device (100) arranged for usage of the content item (120). The usage information could for instance comprise the number of times a content item has been played back, or the duration of such playback.

French Abstract:

L'invention concerne un procede de regulation de l'usage d'un item de contenu (120) par un utilisateur, comprenant l'enregistrement d'une information d'usage pour l'item de contenu (120) relative a l'usage de celui-ci et, apres cet enregistrement, la facturation a l'utilisateur, conformement a l'information d'usage enregistree pour l'item de contenu (120). L'enregistrement a lieu de preference dans un dispositif utilisateur final (100) agence pour l'usage de l'item de contenu (120). L'information d'usage peut comprendre, par exemple, le nombre de fois qu'un item de contenu a ete reproduit, ou la duree d'une telle reproduction.

Type	Pub. Date	Kind	Text
Publication	20040129	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20040422		Late publication of international search report
Republication	20040422	A3	With international search report.
Republication	20040422	A3	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Detailed Description:

...a content item is a representation of the most relevant perceptual features of the item in question. Such fingerprints are sometimes also known as "(robust) hashes". The fingerprints of a large number of **multimedia** objects along with their associated respective **metadata**, such as the title, artist, genre and so on, are stored in a database. The metadata of a content item is retrieved by computing its...

7/5K/5 (Item 5 from file: 349) [Links](#)

PCT FULLTEXT

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01039826

METHOD AND SYSTEM FOR MULTIMEDIA TAGS

PROCEDE ET SYSTEME DE STOCKAGE ET DE TRANSFERT DE MARQUEURS MULTIMEDIA

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FI; FI(Residence); FI(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

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Kunnaankuja 9, FIN-01370 Vantaa; FI; FI(Residence); FI(Nationality); (Designated only for: US)

Legal Representative:

- **HARROUN John A(agent)**
c/o Morgan & Finnegan, LLP, 345 Park Avenue, New York, NY 10154; US;

	Country	Number	Kind	Date
Patent	WO	200369823	A2-A3	20030821
Application	WO	2003US2683		20030213
Priorities	US	200273200		20020213

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PT; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-015/16	Main
G06F-015/16	Main
H04Q-007/20	

Publication Language: English

Filing Language: English

Fulltext word count: 26149

English Abstract:

A multimedia data construct called a tag (Fig. 5) may be stored and transferred. A user can use multimedia content, to create content portion of a tag (502). The multimedia file is then incorporated into the tag or it can be referenced by a pointer in the tag (530). The multimedia file is artistic expression of the user and the tag uniquely associates the user's identity with the multimedia file by prohibiting alteration of the content after the user completes its creation. The tag includes at least one dynamic indicator that may be changed based on one or more predefined rules upon transmission. The tag may include an ID, that may be based on subscriber information. Encryption techniques may be employed to protect privacy concerns so that such subscriber information is not freely available.

French Abstract:

L'invention concerne un procede et un systeme servant a stocker et a transferer un ensemble de donnees multimedia que l'on designe par le nom generique de marqueur. Ce systeme permet a un utilisateur d'utiliser un contenu multimedia pour creer une portion de contenu d'un marqueur. Le fichier multimedia est ensuite integre dans le marqueur ou reference par un pointeur dans le marqueur. Le fichier multimedia est l'oeuvre de l'utilisateur, le marqueur associant l'identite de l'utilisateur au fichier multimedia de maniere unique et interdisant toute modification du contenu une fois l'oeuvre terminee. Le marqueur comprend au moins un indicateur dynamique pouvant etre modifie sur la base d'une ou de plusieurs regle predefinies lors de la transmission. Le marqueur peut contenir une ID comprenant des informations d'abonne. Le systeme permet egalement de proteger les donnees confidentielles par cryptage, pour que les informations d'abonne ne soient pas disponibles librement.

Type	Pub. Date	Kind	Text
Publication	20030821	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20040311		Late publication of international search report
Republication	20040311	A3	With international search report.

Detailed Description:

...TS 23.140, V5 0 (200112).

22

An example of the values inserted into the MAC field and the digital signature (SIG) field of the **tag** 138 is as follows, using the principles of public key encryption. A **hash** value is computed on the concatenated **multimedia** content 138' and the author's personal ID field, forming the message authentication code (MAC). In this example, it is not necessary to store the...138' has not been altered since it was created by the author, the second wireless device computes a reference MAC. The reference MAC is a **hash** value computed on the concatenated **multimedia** content

138' and author's personal ID, both of which have been provided by the **tag 138**. The second wireless device compares the recovered MAC with the reference MAC and if the two MAC values are equal, then the receiving party...

7/5K/9 (Item 9 from file: 349) [Links](#)

PCT FULLTEXT

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00876811

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR DEVICE, OPERATING SYSTEM, AND NETWORK TRANSPORT NEUTRAL SECURE INTERACTIVE MULTI-MEDIA MESSAGING SYSTEME, PROCEDE ET PRODUIT PROGRAMME D'ORDINATEUR POUR APPAREIL, SYSTEME D'EXPLOITATION ET MESSAGERIE MULTIMEDIA INTERACTIVE RESEAU, NEUTRE ET SECURISEE

Patent Applicant/Patent Assignee:

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Legal Representative:

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Flehr Hohbach Test Albritton & Herbert LLP, 4 Embarcadero Center, Suite 3400, San Francisco, CA 94111-4187; US;

	Country	Number	Kind	Date
Patent	WO	200210962	A1	20020207
Application	WO	2001US23713		20010727
Priorities	US	2000627357		20000728
	US	2000627358		20000728
	US	2000627645		20000728
	US	2000628205		20000728
	US	2000706606		20001104
	US	2000706609		20001104
	US	2000706610		20001104
	US	2000706611		20001104
	US	2000706612		20001104
	US	2000706613		20001104
	US	2000706614		20001104
	US	2000706615		20001104
	US	2000706616		20001104
	US	2000706617		20001104
	US	2000706621		20001104
	US	2000706661		20001104
	US	2000706664		20001104
	US	2001271455		20010225
	US	2001912715		20010725
	US	2001912936		20010725

	US	2001912905		20010725
	US	2001912773		20010725
	US	2001912885		20010725
	US	2001912860		20010725
	US	2001912941		20010725
	US	2001912901		20010725
	US	2001912772		20010725

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/00	Main
G06F-017/00	Main

Publication Language: English

Filing Language: English

Fulltext word count: 169299

English Abstract:

System, method, signal, operating model, and computer program for electronic messaging. Systems and method for providing security for communication of electronic messages, interactive sessions, software downloads, software upgrades, and other content from a source to a receiving device as well as signals used for such communications (304, 309, 308, 324, 342, 338, 334, 330, 326). Systems, methods, signals, device architectures, data formats, and computer program structures for providing authentication, integrity, confidentiality, non-repudiation, replay protection, and other security properties while minimizing the network (306) bandwidth, computational resources and manual user interactions (314) required to install, enable, deploy and utilize these security properties. System, device, method, computer program, and computer program product for searching and selecting data and control elements in message procedural/data sets for automatic and complete portrayal of message to maintain message intent.

French Abstract:

Système, procédé, signal, modèle opératoire et programme d'ordinateur pour messagerie électronique. Systèmes et procédé permettant de sécuriser la communication de données de messages électroniques, sessions interactives, téléchargements de logiciels, mises à jour de logiciels et autres contenus d'une source à un appareil récepteur ;

signaux utilises pour ce type de communication (304, 309, 308, 324, 342, 338, 334, 330, 326). Systemes, procedes, signaux, architectures d'appareils, formats de donnees et structures de programmes d'ordinateur assurant l'authentification, l'integrite, la confidentialite, la non-repudiation, la protection contre la reinsertion ainsi que d'autres proprietes de securite tout en reduisant la bande passante du reseau (306), ressources informatiques et interactions manuelles de l'utilisateur (314) requises pour l'installation, l'activation, le deploiement et l'utilisation de ces proprietes de securite. Systeme, appareil, procede, programme d'ordinateur et produit programme d'ordinateur permettant de rechercher et de selectionner des elements de donnee et de commande dans des procedures relatives aux messages et des ensembles de donnees pour obtenir une representation automatique et complete du message et preserver l'intention du message.

Type	Pub. Date	Kind	Text
Publication	20020207	A1	With international search report.
Publication	20020207	A1	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination	20030116		Request for preliminary examination prior to end of 19th month from priority date

Detailed Description:

...when the MT was created, or other information from the Client's digital certificate, or other information sent by the Client before sending the Message **Tag**.

The SHA1 digest function shown above can be replaced with any cryptographically secure compression or **hash** or digest function including but not limited to IVID2, MD4, MD5, RIPE1 60, SHA-2561 SHA-384, SHA-512, DES-CBC-MAC, 3DES-CBC-MAC...

7/5K/10 (Item 10 from file: 349) [Links](#)

PCT FULLTEXT

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00874842

USING EMBEDDED DATA WITH FILE SHARING

UTILISATION DE DONNEES INTEGREES AVEC LE PARTAGE DE FICHIERS

Patent Applicant/Patent Assignee:

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(Designated only for: US)

Patent Applicant/Inventor:

- **LEVY Kenneth L**
110 NE Cedar Street, Stevenson, WA 98648; US; US(Residence); US(Nationality); (Designated only for: US)

Legal Representative:

- **MEYER Joel R(agent)**
Digimarc Corporation, 19801 SW 72nd Avenue, Suite 100, Tualatin, OR 97062; US;

	Country	Number	Kind	Date
Patent	WO	200208945	A1	20020131
Application	WO	2001US22953		20010720
Priorities	US	2000620019		20000720
	US	2000257822		20001221

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/00	Main
G06F-017/00	Main

Publication Language: English

Filing Language: English

Fulltext word count: 9858

English Abstract:

A system and method for maintaining the scalability and promoting reliability of file sharing including embedding data (300) within the data file (302), reading the emdedded data (304), decoding (306) and acting on the embedded data (308). The embedded data (300) may include a watermark and be liked to other copy management systems such as those proposed in DVD and SDMI.

French Abstract:

La presente invention concerne un systeme et un procede permettant de maintenir l'extensibilite et de favoriser la fiabilite du partage de fichiers, ledit procede comprenant l'integration de donnees (300) a l'interieur du fichier de donnees (302), la lecture des donnees integrees (304), le decodage (306) et l'action sur les donnees integrees (308). Les donnees integrees (300) peuvent comprendre un filigrane et etre liees a d'autres systemes de gestion de copie tels que ceux proposes par les technologie DVD et SDMI.

Type	Pub. Date	Kind	Text
Publication	20020131	A1	With international search report.
Examination	20020822		Request for preliminary examination prior to end of 19th month from priority date

Detailed Description:

...can also happen during the file transfer in the file sharing system. The identity of the file can be determined from its ID3 song tifie **tag** or digital fingerprint, defined as a **hash** of some or all of the digital **audio** file. The song tifie or fingerprint can be used to connect to a secondary database to locate the ID for that song. In this design...

7/5K/11 (Item 11 from file: 349) [Links](#)

PCT FULLTEXT

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00822261

CONNECTED AUDIO AND OTHER MEDIA OBJECTS

LIAISON D'OBJETS AUDIO ET D'AUTRES OBJETS MEDIA

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(Designated only for: US)
- **RHOADS Geoffrey B**; 2961 SW Turner Road, West Linn, OR 97068
US; US(Residence); US(Nationality)
(Designated only for: US)
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Legal Representative:

- **STEWART Steven W(agent)**
Digimarc Corporation, 19801 SW 72nd Avenue, Suite 250, Tualatin, OR 97062; US;

	Country	Number	Kind	Date
Patent	WO	200155889	A1	20010802
Application	WO	2001US2609		20010125
Priorities	US	2000178028		20000126
	US	2000563664		20000502

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;

GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/00	Main
G06F-017/00	Main
H04K-001/00	

Publication Language: English

Filing Language: English

Fulltext word count: 14323

English Abstract:

Media objects are transformed into active, connected objects via identifiers embedded into them or their containers. In the context of a user's playback experience, a decoding process extracts the identifier from a media object and possibly additional context information and forwards it to a server. The server, in turn, maps the identifier to an action, such as returning metadata, re-directing the request to one or more other servers, requesting information from another server to identify the media object, etc. The linking process applies to broadcast objects as well as objects transmitted over networks (1251, 1252) in streaming and compressed formats.

French Abstract:

L'invention concerne des objets media transformes en objets actifs relies via des identificateurs integres dans ces objets, ou via leurs boites. Dans un contexte de lecture d'un utilisateur, un procede de decodage extrait l'identificateur d'un objet media et eventuellement des informations de contexte supplementaires, et les envoie a un serveur. Le serveur, a son tour, etablit une correspondance entre l'identificateur et une action, telle que le renvoi de meta-donnees, le re-acheminement de la demande vers au moins un serveur, et des demandes d'informations provenant d'un autre serveur de facon a identifier l'objet media, etc. Un procede de liaison s'applique aux objets de diffusion ainsi qu'aux objets transmis sur des reseaux (1251, 1252) dans des formats continu et compresse.

Type	Pub. Date	Kind	Text
Publication	20010802	A1	With international search report.
Publication	20010802	A1	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
Examination	20011122		Request for preliminary examination prior to end of 19th month from priority date
Claim Mod	20020110		Later publication of amended claims under Article 19 received:
Republication	20020110	A1	With international search report.

Republication	20020110	A1	With amended claims.
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Detailed Description:

...from the file (e.g., from a header or footer), and then uses a fingerprinting process tailored for that type of file (e.g., a **hash** of a compressed image or **video** frame). The dynamic identifier computed by this process may be associated with **metadata** and/or actions using the processes and systems described in this document.

Registration Process

One way to implement the registration process is to build client...

7/5,K/12 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0014148282 *Drawing available*

WPI Acc no: 2004-333134/200431

XRPX Acc No: N2004-265935

Audio/video generation apparatus in camera, generates hash reference value from data values representing audio/video data by predetermined relation

Patent Assignee: SONY UK LTD (SONY); TAPSON D W (TAPS-I); WILLIAMS M J (WILL-I)

Inventor: TAPSON D W; WILLIAMS M J

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
GB 2394611	A	20040428	GB 200224443	A	20021021	200431	B
US 20040085342	A1	20040506	US 2003688716	A	20031017	200431	E

Priority Applications (no., kind, date): GB 200224443 A 20021021

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
GB 2394611	A	EN	33	5	

Alerting Abstract GB A

NOVELTY - A **metadata** processor (84) which generates **metadata** corresponding to content and/or attributes of **audio/video** data, produces a **hash** value providing a quasi-unique reference to **audio/video** (A/V) data such that the size of hash value is less than the A/V data. The processor generates the hash value by a predetermined relation with respect to the A/V data.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. camera;
2. metadata generation processor;
3. camera utility device;
4. data structure corresponding to A/V data;
5. data carrier;
6. metadata association processor;
7. ingestion processor;
8. A/V data production method; and
9. A/V data production program

USE - Audio/Video (A/V) generation apparatus e.g. video tape recorder (VTR) or video cassette recorder (VCR) in camera connected personal digital assistant (PDA).

ADVANTAGE - A/V generation is improved by quasi-unique reference data generation.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the audio/video generation apparatus.

20meta store

82hard disk

84hashing processor

86metadata association processor

VFvideo frame

Title Terms /Index Terms/Additional Words: AUDIO; VIDEO; GENERATE; APPARATUS; CAMERA; HASH; REFERENCE; VALUE; DATA; REPRESENT; PREDETERMINED; RELATED

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
G09G-005/00; H04N-007/24			Main		"Version 7"

US Classification, Issued: 345723000

File Segment: EPI;

DWPI Class: T01; W01

Manual Codes (EPI/S-X): T01-C03C; T01-J10D; W01-A06C4

...NOVELTY - A **metadata** processor (84) which generates **metadata** corresponding to content and/or attributes of **audio/ video** data, produces a **hash** value providing a quasi-unique reference to **audio/video** (A/V) data such that the size of hash value is less than the A/V data. The processor generates the hash value by a... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **G09G-005/00...** Main Original Publication Data by Authority...**Original Abstracts:**generated.Generating a quasi-unique reference from the information material provides a facility for identifying the audio/video material. In one embodiment the quasi-unique **reference** is a hash value. The hash value provides a quasi-unique reference, which can be efficiently searched in order to identify, the audio/video material. Accordingly, metadata, which describes the content or **attributes** of the **audio/video** material, may be uniquely or quasi uniquely associated with the information material.

14/5K/2 (Item 2 from file: 349) [Links](#)

PCT FULLTEXT

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00983606

MULTIPLE STEP IDENTIFICATION OF RECORDINGS

IDENTIFICATION D'ENREGISTREMENTS COMPORTANT DES ETAPES MULTIPLES

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Legal Representative:

- **GOLLHOFER Richard A(agent)**
Staas & Halsey LLP, Suite 500, 700 Eleventh Street, N.W., Washington, DC 20001; US;

	Country	Number	Kind	Date
Patent	WO	200312695	A2-A3	20030213
Application	WO	2002US24054		20020731
Priorities	US	2001308594		20010731

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main
G06F-017/30	Main

Publication Language: English

Filing Language: English

Fulltext word count: 8466

English Abstract:

Multiple information is extracted from an unknown recording and information associated therewith. Associated information includes the filename, if the recording is a computer file in, e.g., MP3 format, or table of contents (TOC) data, if the recording is on a removable medium, such as a compact disc. At least one and preferably several algorithmically determined fingerprints are extracted from the recording using one or more fingerprint extraction methods. The information extracted is compared with corresponding information in a database maintained for reference recordings. Identification starts with the most accurate and efficient method available, e.g., using a hash ID, a unique ID or text. Fingerprint matching is used to confirm other matches and validation is performed by comparing the duration of the unknown and a possibly matching reference recording.

French Abstract:

On extrait des informations multiples d'un enregistrement inconnu, ainsi que les informations qui lui sont associees. Ces informations associees comprennent le nom de fichier, si l'enregistrement est un fichier informatique, par exemple, en format MP3, ou les donnees de table de contenus (TEC), si l'enregistrement est effectue sur un support amovible, tel qu'un disque compact. On extrait de cet enregistrement au moins une et, de preference, plusieurs empreintes determinees au moyen d'un algorithme, par l'intermediaire d'un ou de plusieurs procedes d'extraction d'empreintes. On compare les informations extraites avec les informations correspondantes d'une base de donnees maintenue pour des enregistrements de reference. L'identification debute par le procede disponible le plus precis et efficace, par exemple, au moyen d'un ID re-indexe, d'un ID unique ou d'un texte. On utilise la correspondance d'empreintes afin de confirmer d'autres correspondances et on execute une validation par comparaison de la duree de l'enregistrement inconnu et d'un enregistrement de reference presentant une correspondance eventuelle.

Type	Pub. Date	Kind	Text
Publication	20030213	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20040318		Late publication of international search report
Republication	20040318	A3	With international search report.

Detailed Description:

...be run over a set of static waveforms from a commercial encoder such as Loudeye or Muse. The challenge with this approach is associating the **fingerprints** with the appropriate **metadata**. The method described above enables **audio fingerprints** to be logically associated with parent records and associated back to the original **audio** source. In the preferred embodiment, the unique **ID** provides differentiation

8

between live and studio versions of the same song while simultaneously linking those records to the same artist and their respective albums...transmitted from one computer to another.

[0061] As illustrated in Fig. 4A, an embodiment of the present invention uses a plurality of related databases. Master **metadata** database 410 contains information on title, artist/author name, owner name and date. Related databases include **audio fingerprint** database 430 and video fingerprint database 440 which form fingerprint database 290 (Fig. 2). Also included are track length/TOC database 450, text database 460, and hash **ID** database 470 and guaranteed unique ID database 480.

[0062] As illustrated in Fig. 413, when unidentified (unknown) recording 100 is accessed by client device 1...

14/5K/3 (Item 3 from file: 349) [Links](#)

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00933110

ADVERTISING AND AUDIENCE AUTHENTICATION WITH SERVER-SIDE MEASUREMENT AND CLIENT-SIDE VERIFICATION

AUTHENTIFICATION DE PUBLICITE ET D'AUDITOIRE AVEC MESURE COTE SERVEUR ET VERIFICATION COTE CLIENT

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Legal Representative:

- **MEININGER Mark M(agent)**
Ipsolon llp, 805 SW Broadway #2740, Portland, OR 97205; US;

	Country	Number	Kind	Date
Patent	WO	200267130	A1	20020829
Application	WO	2002US5380		20020220
Priorities	US	2001789433		20010220

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-013/00	Main
G06F-013/00	Main

Publication Language: English

Filing Language: English

Fulltext word count: 6393

English Abstract:

A traffic authentication method and related computer-implemented software provide authenticated information about audio or video program traffic transmitted over a computer network (16) from a media server (12). The invention combines server-side measurement with client-side sampled verification. The server-side measurement provides a complete and accurate measurement of audience size for media traffic transmitted from the server (12). The client-side sampled verification provides sampled corroboration of the veracity or accuracy of part of the transmitted media traffic. One method implementation includes forming at the media server (12) a media census of media segments (e.g., advertisements) transmitted over a computer network (16) from the media server (12), forming at one or more client computers media segment receipts that identify media segments transmitted to the one or more client computers (10) from the media server (12); and correlating the media census with the media segment receipts to provide verification of the media census.

French Abstract:

La presente invention concerne d'une part un procede d'authentification des trafics et d'autre part un logiciel d'ordinateur permettant de fournir une information authentifiee concernant un trafic d'emissions de radio ou de video emis via un reseau informatique (16) depuis un serveur de supports (12). A la mesure cote serveur, l'invention associe cote client une verification echantillonnee. La mesure cote serveur fournit une mesure complete et precise de l'auditoire pour le trafic supports en emission au depart du serveur (12). La verification echantillonnee cote client permet de corroborer avec echantillonnage la veracite ou la precision d'une partie du trafic de supports en emission. Pour l'un des modes de realisation, on constitue au niveau du serveur de supports (12) un decompte des supports des segments de supports, et notamment les annonces publicitaires, emis via le reseau informatique (16) au depart du serveur de supports (12), puis on constitue au niveau de l'un au moins des ordinateurs clients des recus de segments de supports identifiant les segments de supports emis a destination de l'un au moins des ordinateurs clients (10) au depart du serveur de supports (12). Pour realiser la verification du decompte des supports, il ne reste plus qu'a faire une correlation entre le decompte des supports et les recus des segments de supports.

Type	Pub. Date	Kind	Text
Publication	20020829	A1	With international search report.

Detailed Description:

...as metatags that include a FILE ID meta-tag that uniquely identifies the advertising media segment 34 by, for example, a universally or globally unique **identifier** (GUID) or an identifying string.

In other implementations, the tag information may be associated with, but not included in, the tagged advertising segments 34.

For example, the **audio** or **video** characteristics of each **tagged** advertising segment 34 can uniquely and concisely identify it, creating a media "**fingerprint**" which can be used to look up and retrieve the ad information (title, owner, etc) from a database. One implementation of such media "fingerprinting" is...

7/5K/8 (Item 8 from file: 349) [Links](#)

PCT FULLTEXT

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01016739

FINGERPRINT DATABASE MAINTENANCE METHOD AND SYSTEM

PROCEDE ET SYSTEME DE MISE A JOUR D'UNE BASE DE DONNEES A EMPREINTE DIGITALE

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(Designated only for: US)
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Patent Applicant/Inventor:

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- **HAITSMA Jaap A**
Prof. Holstlaan 6, NL-5656 AA Eindhoven; NL; NL(Residence); NL(Nationality); (Designated only for: US)

Legal Representative:

- **GROENENDAAL Antonius W M(agent)**
Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven; NL;

	Country	Number	Kind	Date
Patent	WO	200346760	A2-A3	20030605
Application	WO	2002IB4605		20021031
Priorities	EP	2001204599		20011129

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
SE; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;

UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main
G06F-017/30	Main

Publication Language: English

Filing Language: English

Fulltext word count: 4802

English Abstract:

A method of maintaining a database comprising a fingerprint of and an associated set of metadata for each of a number of multimedia objects. Respective portions (201, 202, 203, 204, 205) of the database are distributed over respective file sharing clients (101-105) connected to a file sharing network (100) arranged for sharing said number of multimedia objects. File sharing clients (101-105) can maintain their own respective portions (201-205) of the database, or transmit fingerprints and metadata to another file sharing client. In the latter case, the other file sharing client is preferably a supernode in the file sharing network (100).

French Abstract:

Procede de mise a jour d'une base de donnees comprenant une empreinte digitale d'une metadonnee et d'un jeu associe de metadonnees pour chaque pluralite d'objets multimedia. Les portions respectives (201, 202, 203, 204, 205) de la base de donnees sont reparties sur des clients utilisateurs du partage de fichier (101 105) connectes a un reseau de partage de fichier (100) agence pour le partage de ladite pluralite d'objets multimedia. Les clients de partage de fichier (101 105) peuvent mettre a jour leurs proportions respectives (201 205) de la base de donnees, ou transmettre les empreintes digitales et les metadonnees a un autre client de partage de fichier. Dans ce dernier cas, l'autre client de partage de fichier est, de preference, un super-noeud dans le reseau de partage de fichier (100).

Type	Pub. Date	Kind	Text
Publication	20030605	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20040617		Late publication of international search report
Republication	20040617	A3	With international search report.

Detailed Description:

...a multimedia object is a representation of the most relevant perceptual features of the object in question. Such fingerprints are sometimes also known as "(robust) hashes".

In most systems using fingerprinting technology, the fingerprints of a large number of **multimedia** objects along with their associated respective **metadata** are stored in a database. The term "metadata" refers to information such as the title, artist, genre and so on for a multimedia object. The

UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main
G06F-017/30	Main

Publication Language: English

Filing Language: English

Fulltext word count: 6419

English Abstract:

Methods of and system for distributing a multimedia object (212). A server (201) receives a request to buy the multimedia object (212) from a client device (101). After authorizing the request, an identifier for the object (212) is forwarded to a file sharing network (100). A node (102) that is able to distribute the object (212) to the client (101) signals a positive response to the server (201) and subsequently transmits the object (212) to the client (101). The operator of the node (102) is then rewarded for distributing the object (212) in this fashion. This way the server (201) does not have to distribute the object (212) itself, but still earns money from the operator of the client (101). By encrypting or otherwise protecting the object (212) it is prevented that clients share the objects directly without contacting the server (201).

French Abstract:

La presente invention concerne des procedes et un systeme permettant de distribuer un objet multimedia (212). Selon l'invention, un serveur (201) recoit une demande d'achat de l'objet multimedia (212) en provenance d'un dispositif client (101). Apres que la demande a ete autorisee, un identificateur de l'objet (212) est transmis a un reseau de partage de fichiers (100). Un noeud (102) capable de distribuer l'objet (212) au client (101) envoie une reponse positive au serveur (201) et transmet ensuite l'objet (212) au client (101). L'operateur du noeud (102) est alors retribue pour avoir distribue l'objet (212). De cette maniere, le serveur (201) n'a pas a distribuer l'objet (212) lui-meme, tout en gagnant de l'argent en provenance de l'operateur du client (101). En chiffrant ou en protegeant l'objet (212) d'une quelconque autre facon, on empeche que les clients partagent directement les objets sans contacter le serveur (201).

Type	Pub. Date	Kind	Text
Publication	20030731	A2	Without international search report and to be republished upon receipt of that report.
Search Rpt	20040916		Late publication of international search report
Republication	20040916	A3	With international search report.
Republication	20040916	A3	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Detailed Description:

...a multimedia object is a representation of the most relevant perceptual features of the object in question. Such fingerprints are sometimes also known as "(robust) hashes". The fingerprints of a large number of **multimedia** objects along with their associated respective **metadata**, such as the title, artist, genre and so on, are stored in a

database.

The metadata of a multimedia object is retrieved by computing its PHNLO101 10), as well as in Jaap Haitzma, Ton Kalker and Job Oostveen, "Robust **Audio Hashing** For Content Identification", International Workshop on Content-Based **Multimedia** Indexing, Brescia, September 2011.

Using fingerprints rather than **metadata** (e.g. the title and artist) of the multimedia object has the advantage that incorrect metadata can no longer prevent the object from being found...

7/5K/3 (Item 3 from file: 349) [Links](#)

PCT FULLTEXT

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01087481

METHOD AND DEVICE FOR REGULATING FILE SHARING

PROCEDE ET DISPOSITIF SERVANT A REGULER UN PARTAGE DE FICHIERS

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NL; NL(Residence); NL(Nationality)
(Designated only for: US)
- **KALKER Antonius A C M**; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven
NL; NL(Residence); NL(Nationality)
(Designated only for: US)
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- **HAITSMA Jaap A**
c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven; NL; NL(Residence); NL(Nationality); (Designated only for: US)

Legal Representative:

- **GROENENDAAL Antonius W M(agent)**
Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven; NL;

	Country	Number	Kind	Date
Patent	WO	200410353	A1	20040129
Application	WO	2003IB3064		20030710
Priorities	EP	200278013		20020724

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Set	Items	Description
S1	1083941	S AUDIO OR VIDEO OR AV OR AUDIOVISUAL OR MULTIMEDIA OR VOICE OR STREAMING
S2	165522	S METADATA OR META()DATA OR TAG OR TAGS OR TAGGED OR TAGGING OR METATAG?
S3	20879	S HASH OR HASHES OR HASHED OR HASHING
S4	2	S S1 (10N) S2 (10N) S3
S5	19	S S1 (10N) S2 (10N) (FINGERPRINT? ? OR SIGNATURE? ?)
S6	10	S S5 NOT PY>2002
S7	3	RD (unique items)
S8	1070543	S VIDEORECORD? OR RECORDER? ? OR VCR OR DVR OR PVR OR TIVO OR REPLAYTV OR PODCAST? OR VODCAST? OR MP3 OR MP4 OR WMA OR MPEG? ? OR MPG? ? OR JPEG? ? OR JPG? ? OR MUSIC OR CHIMP OR REALTIME OR REAL()TIME OR VIDEOCONFERENCE? ? OR WEBCAST? ? OR WEB()CAST? ? OR MOVIE? ? OR MINIMOVIE? ?
S9	1	S S8 (10N) S2 (10N) S3
S10	6	S S8 (10N) S2 (10N) (FINGERPRINT? ? OR SIGNATURE? ?)
S11	6	S S10 NOT S7
S12	0	S S11 NOT PY>2002

; show files

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**File 94: UD200609W2 is the last update for 2006. UD200701W1 is the first update for 2007. The file is complete and up to date.*

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**File 583: This file is no longer updating as of 12-13-2002.*

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Title: Efficient video similarity measurement and search

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Abstract: We consider the use of meta-data and/or video-domain methods to detect similar videos on the web. Meta-data is extracted from the textual and hyperlink information associated with each video clip. In video domain, we apply an efficient similarity detection algorithm called video signature. The idea is to form a signature for each clip by selecting a small number of its frames that are most similar to a set of random seed images. We then apply a statistical pruning algorithm to allow fast detection on very large databases. Using a small ground-truth set, we achieve 90% recall and 95% precision using only 8% of the total number of operations required without pruning. For a database of around 46,000 video clips crawled from the web, **video signature** technique significantly outperforms **meta-data** in precision and recall. We show that even better performance can be achieved by combining them together. Based on our measurements, each video clip in our database has, on average, 1.53 similar copies. 4 Refs.

Descriptors: *Video signal processing; Websites; Metadata; Feature extraction; Algorithms; Statistical methods; Database systems; Image compression; Search engines; Multimedia systems; Image retrieval

Identifiers: Video domain method; Video signature technique; Random seed image; Statistical pruning algorithm; Multimedia search engine

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